



## English Language Abstract of Foreign Patent

DE 19735901 A1

**Original Title:** DE19735902A1: Selektives Adsorbens fuer biologische Materialien

**Translation Title:** New selective adsorbent carrying peptide(s) that mimic complement C1q useful for removing immune complexes, viruses etc. from blood, plasma and serum

**Assignee:** IMTEC IMMUNDIAGNOSTIKA GMBH Non-standard company ]

**Inventor:** HENTSCHEL C; HIEPE F; PFUELLER B; SCHOESSLER W;

**Accession:** 1999-154848 / 199914

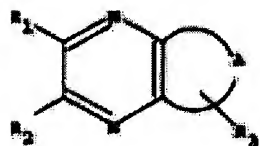
**IPC Codes:** C07K 17/00 ; C07K 7/00 ; C07K 14/00 ;

### ABSTRACT

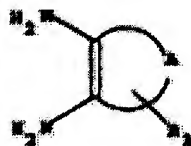
**Novelty** - Selective adsorbent for binding immune complexes, viruses, other pathogens, endotoxins, C-reactive proteins, amyloid, DNA, cardiolipids, fibronectin, fibrinogen and other biological materials comprises a solid carrier to which are bound synthetic peptides (I) which mimic the active center of protein C1q.

**Use** - The absorbent is useful for eliminating specified materials from blood, plasma and serum, for medical or pharmaceutical applications. Selective binding interaction. A microtitre plate was coated with C1q, then tested in an immunoassay, for inhibition of binding to aggregated human immunoglobulin (representing circulating immune complexes, final concentration 0.8  $\mu$ g/ml) in presence of peptide of formula (A): RFDHVITNMNNYEPR (A). The dissociation constant was 7  $\mu$ g/ml, indicating effective inhibition of binding.

**Advantage** - The absorbent can be produced with consistent quality from readily available synthetic peptides. (I) bind the specified materials with high affinity and selectivity.



(I)



(II)